

10/532 222 9/05/01 AEG

Application No.: Not Yet Assigned

Docket No.: M1071.1928

Please amend the paragraph beginning on page 2, line 6 as follows:

In Japanese Unexamined Patent Application Publication No. 5-152845 (Patent Document 1), input-output electrodes of microstrip lines are disposed so as to sandwich a dielectric support where a TE01 δ -mode dielectric resonator is used in microwave band oscillators is set.

Please amend the paragraph beginning on page 2, line 10 as follows:

Furthermore, in Japanese Unexamined Patent Application Publication No. 2-246403 (Patent Document 2), in order to increase a coupling to an outer circuit, a high-frequency oscillator ~~in which~~ has a TE01 δ -mode dielectric resonance element which is disposed on a support so as to be tilted. In this way, when an input-output electrode is disposed on the side where the resonance element is downward tilted, the coupling to an outer circuit can be increased. Furthermore, since the input-output electrode can be disposed at a location away from the support, the fear that the support may be set on the input-output electrode is reduced and also the possibility that oscillation characteristics may become unstable can be decreased.

Please amend the paragraph beginning on page 2, line 23 as follows:

~~Patent Document 1: Japanese Unexamined Patent Application Publication No. 5-152845~~

Please amend the paragraph beginning on page 2, line 25 as follows:

~~Patent Document 2: Japanese Unexamined Patent Application Publication No. 2-246403~~

Please amend the paragraph beginning on page 2, line 2 as follows:

Disclosure of Invention

10/532, 022 9/25/07 ALG

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Please amend the paragraph beginning on page ~~2~~³, line 3 as follows:

~~Problems to be Solved by the Invention~~

Please insert the following prior to the paragraph beginning on page 5, line 1:

Summary of the Invention

Please amend the paragraph beginning on page 5, line 1 as follows:

As described above, in the above two patent documents, although the resonator and the input-output electrode can be strongly coupled, there occurs a problem in that the characteristics deteriorate due to the mounting accuracy and the use of the resonator is limited. ~~Then~~ Thus, it is an object of the present invention to obtain a TE01 δ -mode dielectric resonator in which, even if an input-output electrode is away from the resonator, a strong coupling to an outer circuit can be obtained and resonator characteristics do not change because of mounting accuracy of the resonator, to obtain a filter, duplexer, oscillator, etc., using the resonator, and to obtain a communication device using these.

Please amend the paragraph beginning on page 5, line 15 as follows:

~~Means for Solving the Problems~~

Please amend the paragraph beginning on page 6, line 5 as follows:

Because of the structure, since the magnetic field of the dielectric resonance element spreads out to the tilted portion of the side face at the outer periphery of the protrusion portion and its vicinity, the spread of the magnetic field distribution can be ~~more~~ greatly increased around the lower portion of the dielectric resonance element as compared to ~~than in the~~ related structures. Thus, even if an input-output electrode is disposed at a location away from the protrusion portion, the dielectric resonance element can be strongly coupled to the input-output electrode. Therefore, since the protrusion portion is made not to contact ~~with~~ the input-output electrode, resonator characteristics do not change.